

**PHOTODEGRADATION-RESISTANT ELECTRODEPOSITABLE COATING
COMPOSITIONS WITH IMPROVED THROW POWER AND PROCESSES
RELATED THERETO**

5

ABSTRACT

The invention provides a photodegradation resistant curable electrodepositable coating composition which includes one or more ungelled, active hydrogen-containing cationic sulfonium salt group-containing resins which are electrodepositable on a cathode, and one or more curing agents having cationic groups or groups which are capable of forming cationic groups. The invention also provides processes for coating an electroconductive substrate with the coating composition, to form single layer or multi-layer composite coatings. Also provided is a multi-layer composite coating in which the electrodepositable coating composition is used to form the primer layer. The compositions have improved throw power versus typical sulfonium salt electrodepositable compositions.

10

15

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100